

**WE CLAIM:**

1. In combination with a water vessel, said water vessel having a tub,  
the tub having an inside surface, a closed loop plumbing system, a water  
pump and a suction device having a porous faceplate, the improvement  
5 comprising;  
a purification device attached to a component of said  
suction device; said purification device having a means  
functioning to generate and release ions;  
wherein said ions inhibit bacteria growth in said water  
10 vessel.
2. In combination with a whirlpool bathtub, said whirlpool bathtub  
having a tub, the tub having an inside surface, a closed loop plumbing  
system, a water pump and a suction device having a porous faceplate,  
the improvement comprising:  
15 a purification device attached to said faceplate; said purification  
device having a power source; said purification device  
having a positive and a negative electrode,  
wherein the power source provides current to the electrodes;  
wherein current runs between said negative and positive  
20 electrode when water is present.  
wherein the positive electrode releases at least one ion; and  
wherein the said ion inhibits the growth of bacteria in said  
whirlpool bathtub.
3. The apparatus of claim 2, wherein the said purification device has a  
25 current limiting device.
4. The apparatus of claim 2, wherein the said purification device further  
comprises a chemical chamber that houses a chemical therein.
5. The apparatus of claim 4, wherein the said chemical chamber is  
attached to the said faceplate.
- 30 6. The apparatus of claim 2, wherein the said purification device has a  
filter.

7. The apparatus of claim 6, wherein the said filter is attached to the said faceplate.
8. The apparatus of claim 7, wherein the said filter is removable and replaceable.
- 5 9. The apparatus of claim 2, wherein at least one component of the purification device is seal preventing contact with water.
10. The apparatus of claim 2, wherein the said purification device is retrofitable to a suction device.
11. The apparatus of claim 2, wherein the said ion inhibits bacteria growth between said whirlpool bathtub usages.
- 10 12. The apparatus of claim 2, wherein the said purification device has a mechanism to alerts a user when to replace said purification device.
13. A method to retrofit a suction device having a housing and faceplate with a purification device, the steps comprising:
- 15 1. Removing the faceplate from the housing.
2. Attaching a purification device having a power source, at least one electrode, and a current limiting device to the faceplate.
3. Reattaching the faceplate to the housing.
- 20 14. The apparatus of claim 11, wherein the said purification device is removable from said faceplate.
15. In combination with a water vessel, said water vessel having a tub, the tub having an inside surface, a closed loop plumbing system, a water pump and output jets, the improvements comprising:
- 25 a housing assembly having a mounting surface for providing a flush mount to an inside surface of a tub, below a fill line of the tub;
- said housing assembly having an input orifice and an output orifice;
- said input orifice having a vertically orientated porous faceplate;
- a removable filter located rearward of the front surface of said faceplate and adjacent to said input orifice;
- 30 a ion generating device that emits ions located rearward of the front

surface of said faceplate and adjacent to said input orifice  
a chemical chamber housing a chemical located rearward of the front  
surface of said faceplate and adjacent to said input orifice;  
5 thereby providing a suction device to take water in the tub, and  
to pass water through said filter and passed said ion generator  
and said chemical chamber,  
wherein the said chemical and said ion inhibit bacteria growth in the  
said whirlpool when water is present.

10 16. The apparatus of claim 15, wherein the said chemical and ion inhibit  
bacteria growth between whirlpool bathtub usages.